

**AMENDMENTS**

**Name of Assignee**

Please amend the Assignee **from** Austin IP Acquisition Corporation **to** Quickshift, Inc. Attached hereto as Exhibit A are true and correct copies of a series of two (2) distinct Notice of Recordation of Assignment Documents mailed to the Patent Office on June 30, 2004 and received by the Patent Office on July 6, 2004 to support such an amendment.

**Entity Status**

On the Notice of Allowance dated May 11, 2006, the Patent Office listed the entity status as a large entity. Attached hereto as Exhibit B are true and correct copies of documents mailed to the Patent Office on June 18, 2001 and received by the Patent Office on June 21, 2001. The specific documents contained within Exhibit B to be brought to the Patent Office's attention are 1) the postcard; 2) the Response to Notice to File Missing Parts; and 3) the Fee Authorization pertaining to small entity. Additionally, attached hereto as Exhibit C is the Updated Filing Receipt dated July 27, 2001 issued by the Patent Office which responded to Applicants' Exhibit B above.

**REMARKS**

Applicants submit this Rule 312 Amendment to correct the Assignee and Entity Status of said application. It is, therefore, respectfully submitted that the foregoing amendments are proper subject matter for this Section 312 Amendment. No new matter has been added.

The Commissioner is hereby authorized to charge any insufficiency of payment of the necessary fees associated with this communication, or credit any overpayment, to Deposit Account No. 23-2426 in the name of Winstead Sechrest & Minick P.C. **A duplicate copy of this transmittal letter is enclosed.**

If the Examiner has any questions or comments concerning this paper or the present application in general, the Examiner is asked to call the undersigned at 512.370.2858.

Respectfully submitted,



Michael P. Adams  
Reg. No. 34,763  
Attorneys for Applicant(s)

Winstead Sechrest & Minick P.C.  
P.O. Box 50784  
Dallas, Texas 75201  
T – 512.370.2858  
F – 512.370.2850

BEST AVAILABLE COPY

Mail Stop Assignment Recordation Services  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Inventor(s): Manuel J. Alvarez II; Peter D. Geiger; Thomas A. Dye  
Assignee: Quickshift, Inc. (f/k/a Interactive Silicon, Inc.)  
Title: "System And Method For Performing Scalable Embedded Parallel Data Decompression"  
Serial No.: 09/821,785  
Docket No.: 40532-P001M8P2 (f/k/a 5143-01705)

ENCLOSED:

- X This return receipt postcard
- 2 pages - Transmittal letter (in duplicate)
- 9 pages - PTO Form 1595 - Recordation Cover Sheet (along with copy of Assignment)
- 3 pages - PTO Form 1595 - Recordation Cover Sheet (along with copy of Name Change)
- X Firm check in the amount of \$80.00

MPA/wk  
June 30, 2004

OPR/FINANCE

30 JUL -6 AM 7:55

Mail Stop Assignment Recordation Services  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Inventor(s): Manuel J. Alvarez II; Peter D. Geiger; Thomas A. Dye  
Assignee: Quickshift, Inc. (f/k/a Interactive Silicon, Inc.)  
Title: "System And Method For Performing Scalable Embedded Parallel Data Decompression"  
Serial No.: 09/821,785  
Docket No.: 40532-P001M8P2 (f/k/a 5143-01705)

ENCLOSED:

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- X Firm check in the amount of \$80.00

MPA/wk  
June 30, 2004

WINSTEAD SECHREST & MINICK P.C. CLIENT ADVANCE ACCOUNT (512) 474-4330 AUSTIN, TEXAS

005082

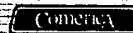
DATE	INVOICE NUMBER	MEMO	BALANCE
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06/30/2004	06302004B ADAMS 40532-P001M8P2	30999-99999-01530-001 CLIENT UNBILLED COSTS ADVANCED Advance for Filing Fees for Assignment & Name Change Client: Quick Shift	80.00
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ORIGINAL CHECK HAS A COLORED BACKGROUND PRINTED ON CHEMICAL REACTIVE PAPER

**WINSTEAD**  
WINSTEAD SECHREST & MINICK  
Attorneys and Counselors

SUITE 800  
100 CONGRESS AVENUE  
AUSTIN, TEXAS 78701  
PH 512.474.4330



COMERICA BANK & TRUST, N.A.  
8850 BOEDEKER STREET  
DALLAS, TEXAS 75225

005082

A Professional Corporation Client Advance Account

PAY: *Eighty and 00/100 Dollars*

NUMBER	DATE	AMOUNT
000005082	06/30/2004	*****80.00

TO THE ORDER OF **Director of the United States Patent  
and Trademark Office**

WINSTEAD SECHREST & MINICK P.C.  
CLIENT ADVANCE ACCOUNT

*Amir Johnson*

AUTHORIZED SIGNATURE

ORIGINAL CHECK HAS AN ARTIFICIAL WATERMARK ON REVERSE SIDE HOLD AT AN ANGLE TO VIEW

⑈005082⑈ ⑆111000753⑆ 1880780356⑈

# WINSTEAD

June 30, 2004

direct dial: 512.370.2858  
madams@winstead.com

Mail Stop Assignment Recordation Services  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Inventor(s): Manuel J. Alvarez II; Peter D. Geiger; Thomas A. Dye

Title: System And Method For Performing Scalable Embedded Parallel Data  
Decompression

Serial No.: 09/821,785

Filing Date: 3/28/01

Examiner: Unknown

Group Art Unit: Unknown

Winstead Docket No.:

40532-P001M8P2 (f/k/a 5143-01705)

Dear Sir or Madam:

Transmitted herewith are the following:

1. Return Receipt Postcard;
2. This Transmittal Letter (in duplicate);
3. Recordation Form Cover Sheet;
4. Assignment (Austin IP Acquisition Corporation – 9/16/03);
5. Recordation Form Cover Sheet;
6. Change of Name (Quickshift, Inc. – 10/24/03); and
7. Firm check in the amount of \$80.00.

I enclose herewith a firm check in the amount of \$80.00, which represents payment for the above-referenced Assignment and Change of Name being filed.

If the fee has been calculated incorrectly, the Commissioner is hereby authorized to charge any insufficiency of payment of the following fees associated with this communication,

SUITE 800  
100 CONGRESS AVENUE  
AUSTIN, TEXAS 78701

PH 512.474.4330  
FAX 512.370.2850  
WINSTEAD.COM

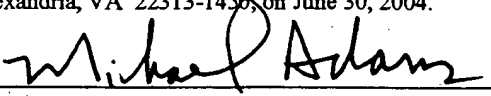
WINSTEAD SECHREST & MINICK  
Attorneys and Counselors  
A Professional Corporation

Austin, Dallas, Fort Worth,  
Houston, Mexico City,  
The Woodlands, Washington, DC

June 30, 2004

Page 2

or credit any overpayment, to Deposit Account No. 23-2426 (40532-P001M8P2) in the name of Winstead Sechrest & Minick P.C. **A duplicate copy of this transmittal letter is enclosed.**

<p>CERTIFICATION UNDER 37 C.F.R. § 1.8</p> <p>I hereby certify that this correspondence (along with any item referred to as being enclosed herewith) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Assignment Recordation Services, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on June 30, 2004.</p> <p></p> <p>Signature</p>
---

Respectfully submitted,



Michael P. Adams  
Attorney for Applicant(s)  
Reg. No. 34,763

MPA:wk  
Enclosures

AUSTIN\_1 252153v1

## PATENTS ONLY

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Interactive Silicon, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

9/16/03

Execution Date: \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: Austin IP Acquisition Corporation

Internal Address: \_\_\_\_\_

Street Address: 7719 Woodhollow Drive

Suite 100

City: Austin State: TX Zip: 78731Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 09/821,785

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael P. AdamsInternal Address: Winstead Sechrest & Minick P.C.

P.O. Box 50784

Street Address: \_\_\_\_\_

City: Dallas State: TX Zip: 752016. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

23-2426 (40532-P001M8P2)

DO NOT USE THIS SPACE

## 9. Signature.

Michael P. Adams

Name of Person Signing



Signature

June 30, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

## PATENTS AND PATENT APPLICATIONS ASSIGNMENT

THIS ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS is made as of September 16, 2003, by and between Austin IP Acquisition Corporation, a Delaware corporation ("**Buyer**"), and Interactive Silicon, Inc., a Delaware corporation ("**Seller**," collectively with Buyer, the "**Parties**").

### R E C I T A L S:

WHEREAS, Buyer and Seller are parties to that certain Asset Purchase Agreement dated as of September 16, 2003 (the "**Purchase Agreement**"); under the terms of which Seller agrees to transfer, and Buyer agrees to acquire, the Purchased Assets (as such term is defined in the Purchase Agreement); and

WHEREAS, Seller is the owner of certain patents and/or applications protected under U.S. and foreign law, common law, and/or international treaties, where possible, and such patents and/or applications have been listed on Schedule I hereto (the "**Patents**"), which constitute part of the Purchased Assets; and

WHEREAS, pursuant to the Purchase Agreement, Buyer desires to obtain and Seller desires to assign all of Seller's right, title and interest in, to and under said Patents including, but not limited to, the right to recover for past infringement throughout the world;

NOW, THEREFORE, for \$500.00, the receipt and sufficiency of which is hereby acknowledged by Seller pursuant to the Purchase Agreement and other good and valuable consideration, Seller makes the following assignment and agrees as follows:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Seller, Seller hereby sells, conveys, assigns, transfers and delivers to Buyer, its successors and assigns, all of its right, title and interest throughout the world in, to and under the Patents, all common law rights thereto, together with the right to sue and recover damages for future or past infringements thereof and to fully and entirely stand in the place of Seller in all matters related thereto, all subject to the terms and conditions of the Purchase Agreement. Seller agrees to take such further action, at Buyer's expense, and to execute such additional documents as may be necessary to perfect Buyer's title in and to the Patents and all foreign counterparts thereof.

Seller hereby requests the Commissioner of Patents and Trademarks (the "**Commissioner**") to record this Assignment of Patents and Patent Applications to Buyer. Seller hereby further requests the Commissioner to issue any and all rights resulting from applications among the Patents or derived therefrom to Buyer as assignee of the entire interest. Seller hereby covenants that it has



full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent herewith.

*[Remainder of page intentionally left blank.]*

IN WITNESS WHEREOF, the parties hereto have caused this Assignment of Patents and Patent Applications to be executed as of the day and year first written above.

INTERACTIVE SILICON, INC.

By: Mary Birnesser

Name: Mary Birnesser

Title: Acting President

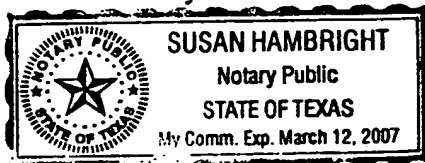
STATE OF TEXAS )

) SS.

COUNTY OF TEXAS

On September 17, 2003, before me, the undersigned, a Notary Public in and for said State, personally appeared Mary Birnesser, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the President of Interactive Silicon, Inc. and acknowledged to me that such corporation executed the within instrument pursuant to its bylaws or a resolution of its Board of Directors.

WITNESS my hand and official seal.



[Signature]

[SEAL] Notary Public

My Commission expires on: 3/12/2007

Acknowledged and accepted:

AUSTIN IP ACQUISITION CORPORATION

Name: Kenneth H. Eif

Title: President & CEO

SCHEDULE 1  
TO  
ASSIGNMENTS OF PATENTS  
AND PATENT APPLICATIONS  
BY  
INTERACTIVE SILICON, INC.  
TO  
AUSTIN IP ACQUISITION CORPORATION

Patents

<u>Title</u>	<u>U.S. Patent No.</u>	<u>Date</u>
MEMORY AND GRAPHICS CONTROLLER WHICH PERFORMS POINTER-BASED DISPLAY LIST VIDEO REFRESH OPERATIONS	5,838,334	November 17, 1998
GRAPHICS SYSTEM INCLUDING A VIRTUAL FRAME BUFFER WHICH STORES VIDEO/PIXEL DATA IN A PLURALITY OF MEMORY AREAS	5,995,120	November 30, 1999
INTEGRATED VIDEO AND MEMORY CONTROLLER WITH DATA PROCESSING AND GRAPHICAL PROCESSING CAPABILITIES	6,002,411	December 14, 1999
VIDEO/GRAPHICS CONTROLLER WHICH PERFORMS POINTER- BASED DISPLAY LIST VIDEO REFRESH OPERATIONS	6,067,098	May 23, 2000
SYSTEM AND METHOD FOR SIMULTANEOUSLY DISPLAYING A PLURALITY OF VIDEO DATA OBJECTS HAVING DIFFERENT BIT PER PIXEL FORMATS	6,108,014	August 22, 2000
PARALLEL DECOMPRESSION AND COMPRESSION SYSTEM AND METHOD FOR IMPROVING STORAGE DENSITY AND ACCESS SPEED FOR NON-VOLATILE MEMORY AND EMBEDDED MEMORY DEVICES	6,145,069	November 7, 2000

SYSTEM AND METHOD FOR MANAGING SYSTEM MEMORY AND/OR NON-VOLATILE MEMORY USING A MEMORY CONTROLLER WITH INTEGRATED COMPRESSION AND DECOMPRESSION CAPABILITIES	6,170,047 B1	January 2, 2001
MEMORY CONTROLLER INCLUDING EMBEDDED DATA COMPRESSION AND DECOMPRESSION ENGINES	6,173,381 B1	January 9, 2001
SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA COMPRESSION	6,208,273 B1	March 27, 2001
MEMORY CONTROLLER INCLUDING EMBEDDED COMPRESSION / DECOMPRESSION CAPABILITIES FOR IMPROVED DATA ACCESS BETWEEN NON- VOLATILE AND SYSTEM MEMORY	6,370,631 B1	April 9, 2002
GRAPHICS SYSTEM AND METHOD FOR RENDERING INDEPENDENT 2D AND 3D OBJECTS USING POINTER BASED DISPLAY LIST VIDEO REFRESH OPERATIONS	6,518,965 B2	February 11, 2003
PARALLEL COMPRESSION / DECOMPRESSION SYSTEM AND METHOD FOR IMPLEMENTATION OF IN-MEMORY COMPRESSED CACHE IMPROVING STORAGE DENSITY AND ACCESS SPEED FOR INDUSTRY STANDARD MEMORY SUBSYSTEMS AND IN-LINE MEMORY MODULES	6,523,102 B1	February 18, 2003
IMPROVED VIDEO CONTROLLER SYSTEM WITH OBJECT DISPLAY LISTS	6,567,091 B2	May 20, 2003

# U.S. Patent Applications

Title	Serial No.	Date
BANDWIDTH REDUCING MEMORY CONTROLLER INCLUDING SCALABLE EMBEDDED PARALLEL DATA COMPRESSION AND DECOMPRESSION ENGINES	09/239,659	01/29/99
SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION	09/491,343	01/26/00
MEMORY MODULE INCLUDING SCALABLE EMBEDDED PARALLEL DATA COMPRESSION AND DECOMPRESSION ENGINES	09/616,480	07/14/00
SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA COMPRESSION	09/818,283	03/27/01
SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION	09/821,785	03/28/01
SYSTEM AND METHOD FOR RECOGNIZING AND CONFIGURING DEVICES EMBEDDED ON MEMORY MODULES	09/840,724	04/23/01
SYSTEM AND METHOD FOR MANAGING COMPRESSION AND DECOMPRESSION OF SYSTEM MEMORY IN A COMPUTER SYSTEM	09/915,751	07/26/01
MEMORY CONTROLLER INCLUDING A HARDWARE COMPRESSION AND DECOMPRESSION ENGINE FOR MANAGING SYSTEM MEMORY	09/963,090	09/25/01

SYSTEM AND METHOD FOR  
GENERATING OPTIMALLY  
COMPRESSED DATA FROM A  
PLURALITY OF DATA  
COMPRESSION/DECOMPRESSION  
ENGINES IMPLEMENTING  
DIFFERENT DATA COMPRESSION  
ALGORITHMS

10/044,785

01/11/02

PARALLEL COMPRESSION AND  
DECOMPRESSION SYSTEM AND  
METHOD HAVING MULTIPLE  
PARALLEL COMPRESSION AND  
DECOMPRESSION ENGINES

10/044,786

01/11/02

PARALLEL COMPRESSION  
METHOD FOR IMPROVING  
NETWORK PROCESSING BY  
IMPROVING STORAGE DENSITY  
AND ACCESS SPEED WITHIN  
NETWORK DATA PROCESSING  
SWITCHES

10/205,590

07/25/02

MANAGING A CODEC ENGINE FOR  
MEMORY COMPRESSION /  
DECOMPRESSION OPERATIONS  
USING A DATA MOVEMENT  
ENGINE

10/227,607

08/23/02

#### International Patent Applications

Title

Serial No.

Date

SYSTEM AND METHOD FOR  
PERFORMING SCALABLE  
EMBEDDED PARALLEL DATA  
COMPRESSION AND  
DECOMPRESSION

PCT/US00/02355

1/27/00

SYSTEM AND METHOD FOR  
PERFORMING SCALABLE  
EMBEDDED PARALLEL DATA  
COMPRESSION

00905859.5

8/28/01

SYSTEM AND METHOD FOR  
PERFORMING SCALABLE  
EMBEDDED PARALLEL DATA  
DECOMPRESSION

01119753.0

8/28/01

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Austin IP Acquisition Corporation

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☒ Change of Name  
☐ Other \_\_\_\_\_

10/24/03

Execution Date: \_\_\_\_\_

2. Name and address of receiving party(ies)

Name: Quickshift, Inc.

Internal Address: \_\_\_\_\_

Street Address: 7719 Woodhollow Drive

Suite 100

City: Austin State: TX Zip: 78731

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 09/821,785

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael P. Adams

Internal Address: Winstead Sechrest & Minick P.C.

P.O. Box 50784

Street Address: \_\_\_\_\_

City: Dallas State: TX Zip: 75201

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

23-2426 (40532-P001M8P2)

DO NOT USE THIS SPACE

9. Signature.

Michael P. Adams

Name of Person Signing

Michael Adams

Signature

June 30, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231



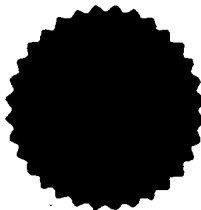
# Delaware

PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AUSTIN IP ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AUSTIN IP ACQUISITION CORPORATION" TO "QUICKSHIFT, INC.", FILED IN THIS OFFICE ON THE TWELFTH DAY OF NOVEMBER, A.D. 2003, AT 8:39 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

3689015 0100

030723615

AUTHENTICATION: 2751910

DATE: 11-17-03

**CERTIFICATE OF AMENDMENT  
OF CERTIFICATE OF INCORPORATION OF  
AUSTIN IP ACQUISITION CORPORATION**

Austin IP Acquisition Corporation, a corporation organized and existing under the laws of the State of Delaware, hereby certifies as follows:

A. The name of the corporation is Austin IP Acquisition Corporation. The corporation's original Certificate of Incorporation was filed with the Delaware Secretary of State on August 4, 2003.

B. This Certificate of Amendment was duly adopted by the corporation's directors and stockholders in accordance with the applicable provisions of Sections 228 and 243 of the Delaware General Corporation Law.

C. The Certificate of Incorporation, as heretofore amended, is hereby further amended by changing Article I so that, as amended, Article I shall be and read as follows:

"The name of this corporation is QuickShift, Inc."

IN WITNESS WHEREOF, the corporation has caused this Certificate to be signed by Kenneth H. East, its President and Chief Executive Officer, this 24<sup>th</sup> day of October, 2003.

AUSTIN IP ACQUISITION CORPORATION



Kenneth H. East, President and Chief Executive Officer

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye  
Assignee: Interactive Silicon, Inc.  
Serial No.: 09/821,785  
Filing Date: March 28, 2001  
Title: SYSTEM AND METHOD FOR PERFORMING SCALABLE  
EMBEDDED PARALLEL DATA DECOMPRESSION  
Atty. Dkt. No.: 5143-01705 (CIP of 09/239,659 filed 1/29/99)

The date stamp of the mail room of the U.S. Patent and Trademark Office hereon will acknowledge receipt of the attached 1) Transmittal Letter; 2) Declaration & POA; 3) Assignment w/cover page; 4) Two fee authorizations; 5) Copy of Notice to file missing parts of application form; and 6) Return Postcard.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye  
Assignee: Interactive Silicon, Inc.  
Serial No.: 09/821,785  
Filing Date: March 28, 2001  
Title: SYSTEM AND METHOD FOR PERFORMING SCALABLE  
EMBEDDED PARALLEL DATA DECOMPRESSION  
Atty. Dkt. No.: 5143-01705 (CIP of 09/239,659 filed 1/29/99)



The date stamp of the mail room of the U.S. Patent and Trademark Office hereon will acknowledge receipt of the attached 1) Transmittal Letter; 2) Declaration & POA; 3) Assignment w/cover page; 4) Two fee authorizations; 5) Copy of Notice to file missing parts of application form; and 6) Return Postcard.

JCH:gm

Via First Class Mail

Date: 6-18-01

Application No:	09/821,785
Filed:	March 28, 2001
Inventor(s):	Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye
Title:	SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

Examiner:	Unknown
Group/Art Unit:	2185
Atty. Dkt. No:	5143-01705

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Box Missing Parts, Commissioner for Patents and Trademarks, Washington, DC 20231, on the date indicated below.

Jeffrey C. Hood

6/13/2011

Date \_\_\_\_\_

Signature \_\_\_\_\_

**Box Missing Parts**  
Commissioner for Patents  
Washington, D.C. 20231

Small entity status is claimed for this application. In response to the Notice to File Missing Parts of Application Under 37 C.F.R. § 1.53(b), mailed May 31, 2001, there is enclosed herewith:

- (a) A combined Declaration and Power of Attorney executed on behalf of the inventors ( 2 pgs.);
- (b) An Assignment executed on behalf of the inventors including cover page ( 3 pgs.);
- (c) Fee authorization in the amount of \$3,980.00 to cover the filing fee for SMALL entity (\$355.00); additional claims - 200 @ \$9/ea. (\$1,800.00); additional independent claims - 44 @ \$40/ea.(\$1,760.00); and surcharge for late filing of oath or declaration for SMALL entity (\$65.00);
- (d) Fee authorization in the amount of \$40.00 to cover the filing fee for the assignment;

- (e) A copy of Notice to File Missing Parts of Application Filing Date Granted;
- (f) A return postcard to acknowledge receipt of these materials. Please stamp and return this postcard to the undersigned.

Please address all correspondence in connection with this application to:

Jeffrey C. Hood  
Conley, Rose & Tayon, P.C.  
P.O. Box 398  
Austin, TX 78767-0398  
Ph: (512) 703-1246

Fee authorizations in the amount of the total filing fee are enclosed. However, if the fee authorizations are missing or insufficient, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment, to Conley, Rose & Tayon, P.C. Deposit Account No. 501505/5143-01705/JCH.

Respectfully submitted,



Jeffrey C. Hood  
Reg. No. 35,198  
ATTORNEY FOR APPLICANT(S)

Conley, Rose & Tayon  
P.O. Box 398  
Austin, Texas 78767-0398  
Ph: (512) 703-1246  
Date: 6/19/2011

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application. No:	09/821,785
Filed:	March 28, 2001
Inventor(s):	Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye
Title:	SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION

Examiner:	Unknown
Group/Art Unit:	2185
Atty. Dkt. No:	5143-01705

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Box Missing Parts, Commissioner for Patents and Trademarks, Washington, DC 20231, on the date indicated below.

Jeffrey C. Hood

6/18/200  
Date

  
Signature

## FEE AUTHORIZATION

Commissioner for Patents  
Washington, D.C. 20231

The Commissioner is hereby authorized to charge the following fee to Conley, Rose & Tayon, P.C. Deposit Account Number 501505/5143-01705/JCH:

Fee:	\$ 355.00	Filing Fee
	\$1,800.00	Additional Claims (200 @ \$9/ea.)
	\$1,760.00	Additional Independent Claims (44 @ \$40/ea.)
	\$ 65.00	Surcharge
Total Amount:	\$3,980.00	
Attorney Docket No.:	5143-01705	

The Commissioner is also authorized to charge any extension fee or other fees which may be necessary to the same account number. If the abovementioned account is found to have insufficient funds, the Commissioner is authorized to charge Conley, Rose & Tayon, P.C. Deposit Account Number 501623/5143-01705/JCH.

Respectfully submitted,

Dr. C. W. W.

Jeffrey C. Hood  
Reg. No. 35,198  
Attorney for Applicant

Application. No:	09/821,785
Filed:	March 28, 2001
Inventor(s):	Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye
Title:	SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION

~~~~~

|                 |            |
|-----------------|------------|
| Examiner:       | Unknown    |
| Group/Art Unit: | 2185       |
| Atty. Dkt. No:  | 5143-01705 |

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Jeffrey C. Hood

6/17/2001  
Date

  
Signature


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Total Amount: \$40.00  
Attorney Docket No.: 5143-01705

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Respectfully submitted,

  
Jeffrey C. Hood  
Reg. No. 35,198  
Attorney for Applicant

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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Manuel J. Alvarez II, Peter Geiger and Thomas A. Dye

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies):

Name: Interactive Silicon, Inc.

Internal Address: \_\_\_\_\_

Street Address: 7719 Woodhollow Drive, Suite 100City Austin State TX ZIP 78731Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: June 11, 2001

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of this application is:

A. Patent Application No.(s)

09/821,785 Filed March 28, 2001

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jeffrey C. HoodInternal Address: Conley, Rose & Tayon, P.C.Street Address: P.O. Box 398City Austin State TX ZIP 78767-03986. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): .....\$ 40.00☒ Authorized to be charged to deposit account8. Deposit account number: 501505/5143-01705/JCH  
(Attach a duplicate copy of this page if paying by deposit account)

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## 9. Statement and Signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Jeffrey C. HoodName of Person Signing  
Reg. No. 35,198  
Signature6/18/2001  
DateTotal number of pages comprising cover sheet: 1



ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

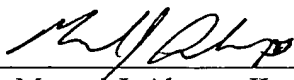
SELL, ASSIGN AND TRANSFER to INTERACTIVE SILICON, INC. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at 7719 Woodhollow Drive, Suite 100, Austin, Texas 78731, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which was filed March 28, 2001, Serial No. 09/821,785, and is entitled SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature)   
Name: Manuel J. Alvarez II

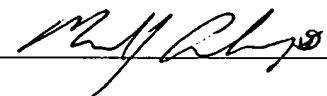
Date: June 11, 2001

Witness: 

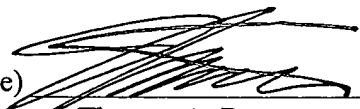
Date: June 11, 2001

(Signature)   
Name: Peter Geiger

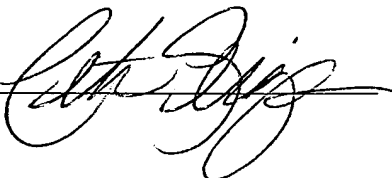
Date: JUNE 11, 2001

Witness: 

Date: June 11<sup>th</sup>, 2001

(Signature)   
Name: Thomas A. Dye

Date: June 11<sup>th</sup>, 2001

Witness: 

Date: JUNE 11, 2001

Jeffrey C. Hood  
Conley, Rose & Tayon, P.C.  
P.O. Box 398  
Austin, TX 78767-0398

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "**SYSTEM AND METHOD FOR PERFORMING SCALABLE EMBEDDED PARALLEL DATA DECOMPRESSION**," the specification of which:

- ☐ is attached hereto.  
☒ was filed on March 28, 2001 as Application Serial No. 09/821,785  
 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate listed below, or under § 365(a) of any PCT international application listed below designating least one country other than the United States of America, and have identified below any foreign application for patent or inventor's certificate, or of any PCT international application, having a filing date before that of the application on which priority is claimed.

| <u>Prior Foreign Application No.</u> | <u>Country</u> | <u>Filing Date</u><br><u>(mm/dd/yy)</u> | <u>Priority</u><br><u>Claimed</u> | <u>Cert. copy</u><br><u>Attached</u> |
|--------------------------------------|----------------|-----------------------------------------|-----------------------------------|--------------------------------------|
| N/A                                  |                |                                         |                                   |                                      |

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

| <u>Provisional Application No.</u> | <u>Filing Date</u><br><u>(mm/dd/yy)</u> |
|------------------------------------|-----------------------------------------|
|                                    |                                         |
|                                    |                                         |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below, or under § 365(c) of any PCT international application listed below designating the United States of America, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information known to me to be material to the patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

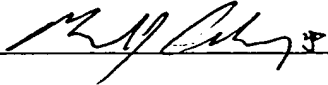
| <u>Parent Application No.</u> | <u>Filing Date</u><br><u>(mm/dd/yy)</u> | <u>Parent Patent No. (if applicable) or Status</u> |
|-------------------------------|-----------------------------------------|----------------------------------------------------|
| 09/239,659                    | 01/29/1999                              | Pending                                            |
| 09/491,343                    | 01/26/2000                              | Pending                                            |
| 09/421,968                    | 10/20/1999                              | 6,208,273                                          |

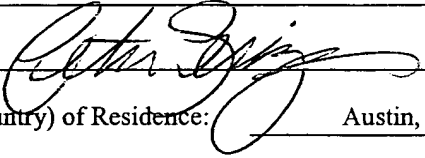
The Assignee hereby revokes any previous Powers of Attorney and appoints Jeffrey C. Hood, Reg. No. 35,198, Kevin L. Daffer, Reg. No. 34,146, B. Noël Kivlin, Reg. No. 33,929, Eric B. Meyertons, Reg. No. 34,876 and David A. Rose, Reg. No. 26,223, each said attorneys being members or associates of the firm of Conley, Rose & Tayon, P.C., as attorney or agent for so long as they remain with such company or firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letters Patent.


Please direct all communications to:

Jeffrey C. Hood  
Conley, Rose & Tayon, P.C.  
P.O. Box 398  
Austin, Texas 78767-0398  
Phone: (512) 476-1400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Full Name: Manuel J. Alvarez II  
Inventor's Signature:  Date: June 11, 2001  
City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.  
Post Office and Residence Address: 8800 Pepper Rock Drive, Austin, TX 78717  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Peter Geiger  
Inventor's Signature:  Date: JUNE 11, 2001  
City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.  
Post Office and Residence Address: 10407 Treasure Island Drive, Austin, TX 78730  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Thomas A. Dye  
Inventor's Signature:  Date: June 11<sup>th</sup>, 2001  
City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.  
Post Office and Residence Address: 6621 Candle Ridge Cove, Austin, TX 78731  
(Include number, street name, city, state and zip code)



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

| APPLICATION NUMBER | FILING/RECEIPT DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|---------------------|-----------------------|------------------------|
| 09/821,785         | 03/28/2001          | Manuel J. Alvarez II  | 5143-01705             |

CONFIRMATION NO. 6571

## FORMALITIES LETTER



\*OC00000006131695\*

Jeffrey C. Hood  
Conley, Rose, & Tayon, P.C.  
P.O. Box 398  
Austin, TX 78767

Date Mailed: 05/31/2001

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 710 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$7120.
  - \$3600 for 200 total claims over 20.
  - \$3520 for 44 independent claims over 3 .
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 7960.

---

*A copy of this notice **MUST** be returned with the reply.*

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PART 2 - COPY TO BE RETURNED WITH RESPONSE



# UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|-----------------|----------|------------|------------|
| 09/821,785         | 03/28/2001  | 2185         | 3980          | 5143-01705      | 67       | 220        | 47         |

CONFIRMATION NO. 6571

## UPDATED FILING RECEIPT



\*OC00000006354384\*

Jeffrey C. Hood  
Conley, Rose, & Tayon, P.C.  
P.O. Box 398  
Austin, TX 78767

Date Mailed: 07/27/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

### Applicant(s)

Manuel J. Alvarez II, Austin, TX;  
Peter Geiger, Austin, TX;  
Thomas A. Dye, Austin, TX;

### Assignment For Published Patent Application

Interactive Silicon, Inc.;

### Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CIP OF 09/239,659 01/29/1999  
WHICH IS A CIP OF 09/491,343 01/26/2000  
AND A CIP OF 09/421,968 10/20/1999 PAT 6,208,273

### Foreign Applications

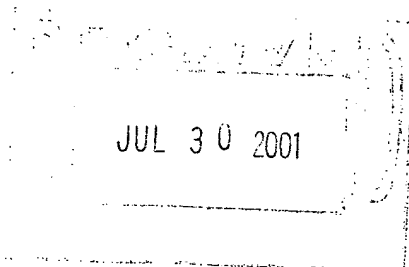
If Required, Foreign Filing License Granted 05/29/2001

Projected Publication Date: 11/08/2001

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*



**Title**

System and method for performing scalable embedded parallel data decompression

**Preliminary Class**

711

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**Data entry by :** GIZAW, ASTER

**Team :** OIPE

**Date:** 07/27/2001



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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
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Office of Initial Patent Examination  
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Washington, DC 20231



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